## E-Measurement Book
## Pre-Measurement

| | |
|---|---|
| Name of Work:- | EMERGENCY WORKS IN WARD NO.08, KOODIGEALLI |
| Estimate Amount:- | Rs.30.00 Lakhs |
| Name of the Agency:- | Sri. SAGAR. J. S ( SAGAR ASSOCIATES ) |
| Work Order No:- | BBMP/EE/BTP/WO/ 15 / 2020-21, Dt: 11.06.2020 |
| Job Code No : | 008-19-000155 |

| Item No. | Description of work | Unit | Nos. | Dimensions in Mtrs. | | | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|
| | | | | Length | Width | Depth | | |
| | Pre measurements recorded on :- 14/08/2020 | | | | | | | |
| 1 | Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T & P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. - reinforced cement concrete grade M20 and above | | | | | | | |
| | For Damaged RCC culvert slabs | | | | | | | |
| | Tatanagara 6th cross | Cum | 1 | 10.00 | 1.50 | 0.20 | 3.00 | |
| | Sahakarnagar 22nd , 23rd crs | Cum | 2 | 10.00 | 1.50 | 0.20 | 6.00 | |
| | Govt school road | Cum | 1 | 6.00 | 1.50 | 0.20 | 1.80 | |
| | Balaji layout 2nd crs | Cum | 1 | 6.00 | 1.50 | 0.20 | 1.80 | |
| | 4th & 5th crs Balaji layout | Cum | 2 | 6.00 | 1.50 | 0.20 | 3.60 | |
| | 7th crs balaji layout | Cum | 1 | 4.80 | 1.50 | 0.20 | 1.44 | |
| | Steps on Bhadrappa Layout 3rd Cross | Cum | 1 | 4.60 | 4.80 | 0.12 | 2.64 | |
| | | Cum | 1 | 4.60 | 4.20 | 0.12 | 2.31 | |
| | | Cum | 1 | 4.60 | 3.60 | 0.12 | 1.98 | |
| | | Cum | 1 | 4.60 | 3.00 | 0.12 | 1.65 | |
| | | Cum | 1 | 4.60 | 2.40 | 0.12 | 1.32 | |
| | | Cum | 1 | 4.60 | 1.80 | 0.12 | 0.99 | |
| | | Cum | 1 | 4.60 | 1.20 | 0.12 | 0.66 | |
| | | Cum | 1 | 4.60 | 0.60 | 0.12 | 0.33 | |
| | Total:- | Cum | | | | Total:- | 29.52 | |
| | | Cum | | | | Limited to | 25.50 | |

| | |
|---|---|
| | Pre measurements recorded on :- 14/08/2020 |

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

14/8/20

Assistant Engineer Ward no. 8



Assistant Executive Engineer
Kodigehalli Sub Division

| Item No. | Description of work | Unit | Nos. | Dimensions in Mtrs. | | | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|
| | | | | Length | Width | Depth | | |
| 2 | Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T & P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. - rubble stone masonry in cement mortar | | | | | | | |
| | Tatanagara 6th cross | Cum | 2 | 10.00 | 0.45 | 0.90 | 8.10 | |
| | Sahakarnagar 22nd , 23rd crs | Cum | 4 | 10.00 | 0.45 | 0.90 | 16.20 | |
| | Govt school road | Cum | 2 | 6.00 | 0.45 | 0.90 | 4.86 | |
| | Balaji layout 2nd crs | Cum | 2 | 6.00 | 0.45 | 0.90 | 4.86 | |
| | 4th & 5th crs Balaji layout | Cum | 4 | 6.00 | 0.45 | 0.90 | 9.72 | |
| | 7th crs balaji layout | Cum | 2 | 4.80 | 0.45 | 0.90 | 3.88 | |
| | Total:- | | | | | Total:- | 47.62 | |
| | | | | | | Limited to | 41.40 | |

14/8/20

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore



Assistant Executive Engineer
Kodigehalli Sub Division

| Item No. | Description of work | Unit | Nos. | Dimensions in Mtrs. | | | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|
| | | | | Length | Width | Depth | | |
| | Pre measurements recorded on :- 17/08/2020 | | | | | | | |
| 3 | Earth work in excavation for foundation of structures as per drawing and technical specifications, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per MORTH specification NO. 304 V Marshy soil. B. in Marshy soil upto 3m depth (By mechanical means) | | | | | | | |
| | vent portion | | | | | | | |
| | Tatanagara 6th cross | cum | 1 | 10.00 | 0.60 | 0.60 | 3.60 | |
| | Sahakarnagar 22nd , 23rd crs | cum | 2 | 10.00 | 0.60 | 0.60 | 7.20 | |
| | Govt school road | cum | 1 | 6.00 | 0.60 | 0.60 | 2.16 | |
| | Balaji layout 2nd crs | cum | 1 | 6.00 | 0.60 | 0.60 | 2.16 | |
| | 4th & 5th crs Balaji layout | cum | 2 | 6.00 | 0.60 | 0.60 | 4.32 | |
| | 7th crs balaji layout | cum | 1 | 4.80 | 0.60 | 0.60 | 1.72 | |
| | Beneath culvert | | | | | | 0.00 | |
| | Tatanagara 6th cross | cum | 1 | 10.00 | 2.10 | 0.50 | 10.50 | |
| | Sahakarnagar 22nd , 23rd crs | cum | 2 | 10.00 | 2.10 | 0.50 | 21.00 | |
| | Govt school road | cum | 1 | 6.00 | 2.10 | 0.50 | 6.30 | |
| | Balaji layout 2nd crs | cum | 1 | 6.00 | 2.10 | 0.50 | 6.30 | |
| | 4th & 5th crs Balaji layout | cum | 2 | 6.00 | 2.10 | 0.50 | 12.60 | |
| | 7th crs balaji layout | cum | 1 | 4.80 | 2.10 | 0.50 | 5.04 | |
| | For Steps | cum | 1 | 4.60 | 4.80 | 0.20 | 4.42 | |
| | Total:- C4 Rc | cum | | | | Total:- | 87.32 | |
| | | cum | | | | Limited to | 83.23 | |

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore



Assistant Executive Engineer
Kodigehalli Sub Division

| Item No. | Description of work | Unit | Nos. | Dimensions in Mtrs. | | | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|
| | | | | Length | Width | Depth | | |
| | Pre measurements recorded on :- 17/08/2020 | | | | | | | |
| 12 | Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. | | | | | | | |
| | Steel board fixing | | | | | | | |
| | 9th main road park sahakar nagar | Cum | 4 | 0.50 | 0.50 | 0.75 | 0.75 | |
| | balaji complex,devinagar | Cum | 1 | 0.50 | 0.50 | 0.75 | 0.18 | |
| | 1957 C block,kodigehalli | Cum | 1 | 0.50 | 0.50 | 0.75 | 0.18 | |
| | 7&150,BB nagar kodigehalli | Cum | 2 | 0.50 | 0.50 | 0.75 | 0.37 | |
| | 2nd&3rd cross,shanthivana | Cum | 2 | 0.50 | 0.50 | 0.75 | 0.37 | |
| | 2496, kodigehalli main road | Cum | 1 | 0.50 | 0.50 | 0.75 | 0.18 | |
| | 4th cross road,CQAL layout | Cum | 1 | 0.50 | 0.50 | 0.75 | 0.18 | |
| | 549, F block, sahakar nagar | Cum | 1 | 0.50 | 0.50 | 0.75 | 0.18 | |
| | police station,sahakar nagar | Cum | 1 | 0.50 | 0.50 | 0.75 | 0.18 | |
| | 20th cross road,B block, CQAL layout | Cum | 2 | 0.50 | 0.50 | 0.75 | 0.37 | |
| | 12th main road, CQAL layout | Cum | 1 | 0.50 | 0.50 | 0.75 | 0.18 | |
| | 50,CQAL layout | Cum | 1 | 0.50 | 0.50 | 0.75 | 0.18 | |
| | 8th mainroad, CQAL layout | Cum | 2 | 0.50 | 0.50 | 0.75 | 0.37 | |
| | 8th mainroad, B block, CQAL layout | Cum | 2 | 0.50 | 0.50 | 0.75 | 0.37 | |
| | 8th A mainroad,B block, CQAL layout | Cum | 2 | 0.50 | 0.50 | 0.75 | 0.37 | |
| | 9th main road,B block CQAL layout | Cum | 1 | 0.50 | 0.50 | 0.75 | 0.18 | |
| | 23rd cross,B block,sahakar nagar | Cum | 2 | 0.50 | 0.50 | 0.75 | 0.37 | |
| | 3rd cross,BB Nagar | Cum | 1 | 0.50 | 0.50 | 0.75 | 0.18 | |
| | 1st cross,CQAL layout | Cum | 2 | 0.50 | 0.50 | 0.75 | 0.37 | |
| | 101, CQAL layout | Cum | 2 | 0.50 | 0.50 | 0.75 | 0.37 | |
| | 16th E cross road, defence layout | Cum | 2 | 0.50 | 0.50 | 0.75 | 0.37 | |
| | 16th cross,8th main, CQAL layout | Cum | 1 | 0.50 | 0.50 | 0.75 | 0.18 | |
| | 2496, kodigehalli main road | Cum | 1 | 0.50 | 0.50 | 0.75 | 0.18 | |
| | 15th main road,sahakar nagar | Cum | 1 | 0.50 | 0.50 | 0.75 | 0.18 | |
| | 1&2 main road,sahakar nagar | Cum | 1 | 0.50 | 0.50 | 0.75 | 0.18 | |
| | post office,sahakar nagar | Cum | 1 | 0.50 | 0.50 | 0.75 | 0.18 | |

7.15



Assistant Executive Engineer
Kodigehalli Sub Division

| Item No. | Description of work | Unit | Nos. | Dimensions in Mtrs. | | | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|
| | | | | Length | Width | Depth | | |
| | 15th main road, F block sahakar nagar | Cum | 2 | 0.50 | 0.50 | 0.75 | 0.37 | |
| | 456,F block,sahakar nagar | Cum | 1 | 0.50 | 0.50 | 0.75 | 0.18 | |
| | 492,axis bank,sahakar nagar | Cum | 1 | 0.50 | 0.50 | 0.75 | 0.18 | |
| | 35,G block, sahakar nagar | Cum | 2 | 0.50 | 0.50 | 0.75 | 0.37 | |
| | 11th cross,9th main road COAL layout | Cum | 2 | 0.50 | 0.50 | 0.75 | 0.37 | |
| | 2nd cross, 2nd main rod amco layout | Cum | 2 | 0.50 | 0.50 | 0.75 | 0.37 | |
| | 3rd cross,1st mainroad amco layout | Cum | 2 | 0.50 | 0.50 | 0.75 | 0.37 | |
| | 5thcross,tata nagar | Cum | 2 | 0.50 | 0.50 | 0.75 | 0.37 | |
| | 7th cross tata nagar | Cum | 1 | 0.50 | 0.50 | 0.75 | 0.18 | |
| | 7th cross, IISC layout | Cum | 2 | 0.50 | 0.50 | 0.75 | 0.37 | |
| | 6th cross,IISC layout | Cum | 2 | 0.50 | 0.50 | 0.75 | 0.37 | |
| | 9th main road,IISC layout | Cum | 1 | 0.50 | 0.50 | 0.75 | 0.18 | |
| | 4th cross , tata nagar | Cum | 2 | 0.50 | 0.50 | 0.75 | 0.37 | |
| | hanumantha road,tata nagar | Cum | 1 | 0.50 | 0.50 | 0.75 | 0.18 | |
| | 6thcross,shanthivana | Cum | 1 | 0.50 | 0.50 | 0.75 | 0.18 | |
| | 6th cross,13th main, sahakar nagar | Cum | 2 | 0.50 | 0.50 | 0.75 | 0.37 | |
| | 8thcross,13th mainroad sahakar nagar | Cum | 1 | 0.50 | 0.50 | 0.75 | 0.18 | |
| | 9 A, 14th mainroad, sahakar nagar | Cum | 2 | 0.50 | 0.50 | 0.75 | 0.37 | |
| | 13th cross,15th main rogad sahkar nagar | Cum | 1 | 0.50 | 0.50 | 0.75 | 0.18 | |
| | 13th cross,16th cross, sahakar nagar | Cum | 2 | 0.50 | 0.50 | 0.75 | 0.37 | |
| | 13th cross,17th main sahakar nagar | Cum | 1 | 0.50 | 0.50 | 0.75 | 0.18 | |
| | 7th cross, shanthivana | Cum | 2 | 0.50 | 0.50 | 0.75 | 0.37 | |
| | 2nd cross,2nd main road, balaji layout | Cum | 1 | 0.50 | 0.50 | 0.75 | 0.18 | |
| | 3rd mainroad,balaji layout | Cum | 1 | 0.50 | 0.50 | 0.75 | 0.18 | |
| | 9th main road,IISC layout | Cum | 2 | 0.50 | 0.50 | 0.75 | 0.37 | |
| | 12th cross,17th main road shakar nagar | Cum | 2 | 0.50 | 0.50 | 0.75 | 0.37 | |
| | 11th cross,17th main road sahakar nagar | Cum | 1 | 0.50 | 0.50 | 0.75 | 0.18 | |
| | 10th cross,17th main road sahakar nagar | Cum | 1 | 0.50 | 0.50 | 0.75 | 0.18 | |
| | 11th cross,18th main sahakar nagar | Cum | 2 | 0.50 | 0.50 | 0.75 | 0.37 | |
| | 14th cross,18th main sahakar nagar | Cum | 2 | 0.50 | 0.50 | 0.75 | 0.37 | |
| | 5th&6th cross, 11th main road IISC layout | Cum | 2 | 0.50 | 0.50 | 0.75 | 0.37 | |



Assistant Executive Engineer
Kodigehalli Sub Division

| Item No. | Description of work | Unit | Nos. | Dimensions in Mtrs. | | | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|
| | | | | Length | Width | Depth | | |
| | 9th cross,19th main road sahakar nagar | Cum | 2 | 0.50 | 0.50 | 0.75 | 0.37 | |
| | 13thcross,sahakar nagar | Cum | 1 | 0.50 | 0.50 | 0.75 | 0.18 | |
| | 9th cross, 13th main | Cum | 2 | 0.50 | 0.50 | 0.75 | 0.37 | |
| | 2cross,3rd main, balaji layout | Cum | 2 | 0.50 | 0.50 | 0.75 | 0.37 | |
| | 5th cross,1 main, devinagar | Cum | 1 | 0.50 | 0.50 | 0.75 | 0.18 | |
| | 8th cross, devinagar | Cum | 2 | 0.50 | 0.50 | 0.75 | 0.37 | |
| | 11th cross,ramaiah layout | Cum | 2 | 0.50 | 0.50 | 0.75 | 0.37 | |
| | 2nd &3rd cross, devinagar | Cum | 2 | 0.50 | 0.50 | 0.75 | 0.37 | |
| | 6th & 7th cross,rmv 2nd stage | Cum | 2 | 0.50 | 0.50 | 0.75 | 0.37 | |
| | 10th main road,IISC layout | Cum | 1 | 0.50 | 0.50 | 0.75 | 0.18 | |
| | 6th cross,devi nagar | Cum | 2 | 0.50 | 0.50 | 0.75 | 0.37 | |
| | 2nd cross, 5h main, lottegolahalli | Cum | 1 | 0.50 | 0.50 | 0.75 | 0.18 | |
| | 5th cross, 2nd main, lottegolahalli | | 2 | 0.50 | 0.50 | 0.75 | 0.37 | 40.05 |
| | | | 110 | | | Total:- | 20.20 | |
| | | | | | | Limited to | 18.86 | |

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore



Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

| Item No. | Description of work | Unit | Nos. | Dimensions in Mtrs. | | | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|
| | | | | Length | Width | Depth | | |
| | **Pre measurements recorded on :- 17/08/2020** | | | | | | | |
| 20 | Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading with all leads and lifts as directed by the Engineer in | | | | | | | |
| | Quantity vide item no. 1 | cum | | | | | 29.52 | |
| | Quantity vide item no. 3 | cum | | | | | 87.32 | |
| | Quantity vide item no. 4 | cum | | | | | 18.86 | |
| | | cum | | | | Total:- | 135.70 | |
| | | cum | | | | Limited to | 108.73 | |

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Assistant Engineer Ward no. 8



Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

| Item No. | Description of work | Unit | Nos. | Dimensions in Mtrs. | | | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|
| | | | | Length | Width | Depth | | |
| | Pre measurements recorded on :- 18/08/2020 | | | | | | | |
| 4 | Providing and filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all leads and lifts etc., complete as per the direction of Engineer in-charge of the work. | | | | | | | |
| | Tatanagara 6th cross | Cum | 1 | 10.00 | 2.10 | 0.30 | 6.30 | |
| | Sahakarnagar 22nd , 23rd crs | Cum | 2 | 10.00 | 2.10 | 0.30 | 12.60 | |
| | Govt school road | Cum | 1 | 6.00 | 2.10 | 0.30 | 3.78 | |
| | Balaji layout 2nd crs | Cum | 1 | 6.00 | 2.10 | 0.30 | 3.78 | |
| | 4th & 5th crs Balaji layout | Cum | 2 | 6.00 | 2.10 | 0.30 | 7.56 | |
| | 7th crs balaji layout | Cum | 1 | 4.80 | 2.10 | 0.30 | 3.02 | |
| | Total:- | | | | | Total:- | 37.04 | |
| | | | | | | Limited to | 36.22 | |

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Assistant EngineerWard no. 8



Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

| Item No. | Description of work | Unit | Nos. | Dimensions in Mtrs. | | | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|
| | | | | Length | Width | Depth | | |
| | Pre measurements recorded on :- 20/08/2020 | | | | | | | |
| 5 | Plain / reinforced cement concrete M15 with OPC cement @ 240 kgs with 40mm and downsize graded granite metal coarse aggregages @ 0.84 cum and fine aggregates @ 0.43 cum in open foundation complete as per drawing and technical specifications. MORTH specifications No. 1500,1700 & 2100 | | | | | | | |
| | Tatanagara 6th cross | Cum | 1 | 10.00 | 2.10 | 0.15 | 3.15 | |
| | Sahakarnagar 22nd , 23rd crs | Cum | 2 | 10.00 | 2.10 | 0.15 | 6.30 | |
| | Govt school road | Cum | 1 | 6.00 | 2.10 | 0.15 | 1.89 | |
| | Balaji layout 2nd crs | Cum | 1 | 6.00 | 2.10 | 0.15 | 1.89 | |
| | 4th & 5th crs Balaji layout | Cum | 2 | 6.00 | 2.10 | 0.15 | 3.78 | |
| | 7th crs balaji layout | Cum | 1 | 4.80 | 2.10 | 0.15 | 1.51 | |
| | Total:- C4PC | | | | | | 18.52 | |
| | | | | | | Limited to | 18.11 | |

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Assistant EngineerWard no. 8



Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

| Item No. | Description of work | Unit | Nos. | Dimensions in Mtrs. | | | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|
| | | | | Length | Width | Depth | | |
| | **Pre measurements recorded on :- 20/08/2020** | | | | | | | |
| 13 | Providing and laying in position plain cement concrete of mix M7.5 with OPC cement @ 180 Kgs using 40mm and down size graded granite metal, corse aggregates @ 0.85 cum and fine aggregtes @ 0.58cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. | | | | | | | |
| | Steel board fixing | | | | | | | |
| | No. as in item no. 12 | Cum | 110 | 0.50 | 0.50 | 0.10 | 2.75 | |
| | Steps on Bhadrappa Layout | Cum | 1 | 4.60 | 4.80 | 0.10 | 2.20 | |
| | | | | | | Total:- | 4.95 | |
| | | | | | | Limited to | 4.95 | |

C+R
20/8/20

Assistant Executive Engineer
Kadigehalli Sub Division
BBMP, Bangalore

Assistant Engineer Ward no. 8

Assistant Executive Engineer Kadigehalli Sub Division, BBMP

Assistant Executive Engineer
Kadigehalli Sub Division
BBMP, Bangalore

| Item No. | Description of work | Unit | Nos. | Dimensions in Mtrs. | | | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|
| | | | | Length | Width | Depth | | |
| | Pre measurements recorded on :- 21/08/2020 | | | | | | | |
| 6 | Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1: 6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. - Available stones | | | | | | | |
| | Available stones | | | | | | | |
| | Tatanagara 6th cross | Cum | 2 | 10.00 | 0.75 | 0.20 | 3.00 | |
| | Sahakarnagar 22nd , 23rd crs | Cum | 4 | 10.00 | 0.75 | 0.20 | 6.00 | |
| | Govt school road | Cum | 2 | 6.00 | 0.75 | 0.20 | 1.80 | |
| | Balaji layout 2nd crs | Cum | 2 | 6.00 | 0.75 | 0.20 | 1.80 | |
| | 4th & 5th crs Balaji layout | Cum | 4 | 6.00 | 0.75 | 0.20 | 3.60 | |
| | 7th crs balaji layout | Cum | 2 | 4.80 | 0.75 | 0.20 | 1.44 | |
| | Total:- | Cum | | | | | 17.64 | |
| | | Cum | | | | Limited to | 16.56 | |

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Assistant EngineerWard no. 8



Assistant Executive Engineer
Kodigehalli Sub Division

| Item No. | Description of work | Unit | Nos. | Dimensions in Mtrs. | | | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|
| | | | | Length | Width | Depth | | |
| | Pre measurements recorded on :- 21/08/2020 | | | | | | | |
| 7 | Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1: 6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. - New stones | | | | | | | |
| | New stones | | | | | | | |
| | Tatanagara 6th cross | Cum | 2 | 10.00 | (0.6+0.75)/2 | 0.70 | 9.45 | |
| | Sahakarnagar 22nd , 23rd crs | Cum | 4 | 10.00 | (0.6+0.75)/2 | 0.70 | 18.90 | |
| | Govt school road | Cum | 2 | 6.00 | (0.6+0.75)/2 | 0.70 | 5.67 | |
| | Balaji layout 2nd crs | Cum | 2 | 6.00 | (0.6+0.75)/2 | 0.70 | 5.67 | |
| | 4th & 5th crs Balaji layout | Cum | 4 | 6.00 | (0.6+0.75)/2 | 0.70 | 11.34 | |
| | 7th crs balaji layout | Cum | 2 | 4.80 | (0.6+0.75)/2 | 0.70 | 4.53 | |
| | Total:- | | | | | | 55.56 | |
| | | | | | | Limited to | 53.30 | |

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Assistant EngineerWard no. 8



Assistant Executive Engineer
Kodigehalli Sub Division

| Item No. | Description of work | Unit | Nos. | Dimensions in Mtrs. | | | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|
| | | | | Length | Width | Depth | | |
| | Pre measurements recorded on :- 21/08/2020 | | | | | | | |
| 14 | Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications | | | | | | | |
| | Steel board fixing | Cum | 110 | 0.50 | 0.50 | 0.60 | 16.49 | |
| | Old Broken fallen steel boards | Cum | 78 | 0.45 | 0.45 | 0.60 | 9.47 | |
| | | | | | | Total:- | 25.96 | |
| | | | | | | Limited to | 25.75 | |

C & R
21/8/20

Assistant EngineerWard no. 8

| Item No. | Description of work | Unit | Nos. | Dimensions in Mtrs. Length | Width | Depth | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|
| | **Pre measurements recorded on :- 24/08/2020** | | | | | | | |
| 8 | Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work. | | | | | | | |
| | Tatanagara 6th cross | Sqm | 2 | 10.00 | | 0.90 | 18.00 | |
| | Sahakarnagar 22nd , 23rd | Sqm | 4 | 10.00 | | 0.90 | 36.00 | |
| | Govt school road | Sqm | 2 | 6.00 | | 0.90 | 10.80 | |
| | Balaji layout 2nd crs | Sqm | 2 | 6.00 | | 0.90 | 10.80 | |
| | 4th & 5th crs Balaji layout | Sqm | 4 | 6.00 | | 0.90 | 21.60 | |
| | 7th crs balaji layout | Sqm | 2 | 4.80 | | 0.90 | 8.64 | |
| | | Sqm | | | | Total:- | 105.84 | |
| | | Sqm | | | | Limited to | 103.50 | |

24/8/20

Assistant Engineer Ward no. 8

Assistant Executive Engineer Kodigehalli Sub Division, BBMP

| Item No. | Description of work | Unit | Nos. | Dimensions in Mtrs. | | | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|
| | | | | Length | Width | Depth | | |
| | Pre measurements recorded on :- 24/08/2020 | | | | | | | |
| 19 | Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications | | | | | | | |
| | For Steps, steel at top and bottom | MT | | | | | | |
| | Step-1, 10 dia | kg | 80 | 4.75 | X | 0.62 | 235.60 | |
| | dist, 10 dia | kg | 70 | 4.55 | X | 0.62 | 197.47 | |
| | step-2 | kg | 80 | 4.15 | X | 0.62 | 205.84 | |
| | dist, 10 dia | kg | 70 | 4.55 | X | 0.62 | 197.47 | |
| | step-3 | kg | 60 | 3.55 | X | 0.62 | 132.06 | |
| | dist, 10 dia | kg | 70 | 4.55 | X | 0.62 | 197.47 | |
| | step-4 | kg | 60 | 2.95 | X | 0.62 | 109.74 | |
| | dist, 10 dia | kg | 70 | 4.55 | X | 0.62 | 197.47 | |
| | step-5 | kg | 40 | 2.35 | X | 0.62 | 58.28 | |
| | dist, 10 dia | kg | 70 | 4.55 | X | 0.62 | 197.47 | |
| | step-6 | kg | 40 | 1.75 | X | 0.62 | 43.40 | |
| | dist, 10 dia | kg | 74 | 4.55 | X | 0.62 | 208.75 | |
| | step-7 | kg | 20 | 1.15 | X | 0.62 | 14.26 | |
| | dist, 10 dia | kg | 74 | 4.55 | X | 0.62 | 208.75 | |
| | step-8 | kg | 20 | 0.55 | X | 0.62 | 6.82 | |
| | dist, 10 dia | kg | 74 | 4.55 | X | 0.62 | 208.75 | |
| | | | | | | | 2419.60 | Kgs |
| | | | | | | Total:- | 2.41 | MT |
| | | | | | | Limited to | 2.41 | MT |

24/8/20

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Assistant EngineerWard no. 8



Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

| Item No. | Description of work | Unit | Nos. | Dimensions in Mtrs. Length | Width | Depth | Quantity | Remarks |
|---|---|---|---|---|---|---|---|---|
| | Pre measurements recorded on :- 26/08/2020 | | | | | | | |
| 9 | Providing and laying in position plain cement concrete of mix 1:2:4 with cement at 240 kg, with 20mm and down size graded granite metal coarse aggregate at 0.69 cum and fine aggregates at 0.459 cum, machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted for coping including cost of all materials, labour, HOM of machinery, curing, complete as per specifications with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work. | | | | | | | |
| | for culvert coping | | | | | | | |
| | Tatanagara 6th cross | cum | 2 | 10.00 | 0.60 | 0.10 | 1.20 | |
| | Sahakarnagar 22nd , 23rd crs | cum | 4 | 10.00 | 0.60 | 0.10 | 2.40 | |
| | Govt school road | cum | 2 | 6.00 | 0.60 | 0.10 | 0.72 | |
| | Balaji layout 2nd crs | cum | 2 | 6.00 | 0.60 | 0.10 | 0.72 | |
| | 4th & 5th crs Balaji layout | cum | 4 | 6.00 | 0.60 | 0.10 | 1.44 | |
| | 7th crs balaji layout | cum | 2 | 4.80 | 0.60 | 0.10 | 0.57 | |
| | for vent | | | | | | 0.00 | |
| | Tatanagara 6th cross | cum | 1 | 10.00 | 0.60 | 0.15 | 0.90 | |
| | Sahakarnagar 22nd , 23rd crs | cum | 2 | 10.00 | 0.60 | 0.15 | 1.80 | |
| | Govt school road | cum | 1 | 6.00 | 0.60 | 0.15 | 0.54 | |
| | Balaji layout 2nd crs | cum | 1 | 6.00 | 0.60 | 0.15 | 0.54 | |
| | 4th & 5th crs Balaji layout | cum | 2 | 6.00 | 0.60 | 0.15 | 1.08 | |
| | 7th crs balaji layout | cum | 1 | 4.80 | 0.60 | 0.15 | 0.43 | |
| | for culvert ramps | | | | | | 0.00 | |
| | Tatanagara 6th cross | cum | 2 | 10.00 | 0.20 | 0.15 | 0.60 | |
| | Sahakarnagar 22nd , 23rd crs | cum | 4 | 10.00 | 0.20 | 0.15 | 1.20 | |
| | Govt school road | cum | 2 | 6.00 | 0.20 | 0.15 | 0.36 | |
| | Balaji layout 2nd crs | cum | 2 | 6.00 | 0.20 | 0.15 | 0.36 | |
| | 4th & 5th crs Balaji layout | cum | 4 | 6.00 | 0.20 | 0.15 | 0.72 | |
| | 7th crs balaji layout | cum | 2 | 4.80 | 0.20 | 0.15 | 0.28 | |
| | c+p | cum | | | | Total:- | 15.86 | |
| | 26/8/20 | cum | | | | Limited to | 15.52 | |

Assistant EngineerWard no. 8